

ENGINEERING AND CONSTRUCTION DIVISION

Mission

Provides HQUSACE staff support and directs engineering and construction management activities for Military Programs (MP), and performs related services for other Federal construction programs assigned to USACE worldwide. Mission areas also include Civil Works (CW), Support for Others (SFO) and Hazardous, Toxic and Radiological Waste (HTRW) for functions indicated.

OFFICE OF THE CHIEF

Functions

1. Responsible for the execution of the USACE world-wide design, engineering and construction services for the Army, DOD, other Federal agencies, and foreign governments. Establishes and evaluates policy related to the engineering and construction functions supporting assigned mission areas.
2. Manages the development and publication of architectural and engineering criteria, standards, and guide specifications, and establishes procedures for design and cost management for MP, and when designated, other Federal construction programs. Responsible for Mandatory and Technical Centers of Expertise, and Centers of Standardization in support of MP.
3. Establishes and analyzes performance goals and indicators, and provides analyses of USACE-wide performance of the engineering and construction mission. Establishes USACE-wide construction management supervision and administration (S&A) policies and guidance for MP. Conducts management studies of USACE field offices to support policy development and facilitate accomplishment of organizational goals and objectives.
4. Establishes military and environmental cost estimating policies and guidance, and ensures compliance with DoD and OMB policies. Provides technical support on the presentation and defense of the annual MILCON budget to OSD, OMB and the Congress. Analyzes workload and distribution, cost of doing business, and engineering and construction program execution.
5. Manages the USACE-wide Center of Expertise for the design and construction of medical and medical research facilities for the Army, and when designated, Air Force, other Federal agencies, and foreign governments.
6. Manages the USACE Installation Support Program, including establishing policies, technical guidance and procedures; coordination and monitoring of customer-funded programs and field office execution. Proponent for the Installation Support Reinvention Center.

7. Proponent for MP sponsored engineering and construction training program. Analyzes and defines USACE-wide needs for engineering and construction training courses and is responsible for development and execution.
8. Establishes policies and procedures for implementation of customer choice initiatives. Provides engineering and construction consulting services to USACE field offices and other Federal agencies.
9. Manages the USACE Value Engineering (VE) Program for MP and CW.

CONSTRUCTION AND DESIGN BRANCH

Functions

1. Develops policies and procedures, and provides staff supervision for the construction and design management and evaluation functions to assure continuous improvement in the technical adequacy, cost effectiveness, quality and safety of construction products and services USACE-wide. Provides USACE-wide oversight of construction and design quality management responsibilities.
2. Reviews and analyzes the FAR, DFARS, AFARS, EFARS, and other applicable regulatory guidance relative to architect-engineer, environmental and construction contract management. Develops contract management policies for MP, CW, SFO and HTRW programs in the form of EFARS, ERs, bulletins, and other publications. Evaluates the technical aspects of existing and proposed legislation which impacts USACE's ability to perform its engineering and construction mission. Coordinates technical evaluation within HQUSACE, and with higher headquarters. Provides contract management expertise and guidance for cost reimbursement and other non-traditional contract methods.
3. Serves as the principal liaison with Navy, Air Force and OSD on policy issues which impact the mission of DOD's design and construction agents; other Federal agencies; professional societies; trade associations; and the construction industry.
4. Develops policies, technical guidance and procedures for the management of construction S&A activities. Conducts special studies of construction management activities and takes action to resolve performance issues.
5. Provides construction management policies, technical guidance and procedures, and monitors construction execution issues related to the EPA Superfund Program and SFO Program, such as the EPA Construction Grants Program, and the HUD Modernization and Development Programs.
6. Develops policies, technical guidance and procedures for USACE-wide execution of the Installation Support (IS) Program. Proponent for IS PROSPECT training; IS Reinvention Center; and JOC; and member of HQDA JOC Steering Committee.

7. Develops policies, technical guidance and procedures for engineering and construction support to MACOMs and installations; provides coordination and interface with CPW to ensure integrated support; and maintains liaison with installation DPW offices in order to improve support and communications among USACE and DPW management officials.
8. Provides policies, technical guidance and procedures for the implementation of training programs in A-E and construction contract management, for all programs. Provides the lead in reviewing, analyzing, and resolving project-specific contract management issues elevated to HQUSACE for action.
9. Proponent for the USACE-wide standard management information system, Resident Management System, that supports area and resident engineer functions.
10. Performs evaluation of MP, CW , SFO, and HTRW construction to assure adequacy of construction and design management policy and effectiveness of policy implementation. Disseminates lessons learned through feedback to MSC's, incorporation in training programs, and by development and publication of new or revised policy or technical guidance, as appropriate. Proponent for USACE construction quality assurance training activities.
11. Provides policies, technical guidance and procedures for the MP customer satisfaction surveys and measurement activities.
12. Identifies R&D projects needed to develop new construction techniques and management tools. Monitors assigned laboratory R&D efforts and provides technical guidance and coordination for technology transfers to the field. Chairs USACE National Quality Assurance Team which promotes construction technology transfers to USACE field offices.

TECHNICAL BRANCH

Functions

1. Develops architectural and engineering technical policies and staff management guidance for MP and other construction programs USACE-wide.
2. Analyzes effects of new doctrine, materiel systems, and force structure to minimize facility impacts. Updates space and technical criteria. Provides facility data to USACE field offices, MACOMs and the Army Staff. Develops policies and technical guidance for peacetime and mobilization real property master planning. Develops planning and design criteria, and space allowances for Army facilities in coordination with MACOMS and the Army Staff.
3. Develops policies, criteria, and technical guidance for planning, design, and construction for MP and other assigned programs, addressing requirements related to the following disciplines: civil, structural, geotechnical, sanitary, mechanical, electrical and electronics, fire protection and life safety, and force protection engineering, architecture, site planning, landscape architecture,

interior design, historic preservation. Guidance must include requirements for energy and water conservation, accommodation of the physically handicapped, and use of environmentally friendly products. Manages the development of USACE guide specifications and other technical documents for the design of fixed facilities for MP. Manages the development of criteria for standard and definitive designs for repetitive facilities for peacetime and mobilization construction. Serves as the USACE point of contact and joint proponent with ACSIM for the DA Facilities Standardization Program.

4. Provides criteria and standards for use of architecture (to include accommodation of the physically handicapped), interior design, landscape architecture, and sanitary, fire protection, and safety engineering in support of the CW program.

5. Develops policies and technical guidance for the following USACE Centers of Expertise: Interior Design; Historic Preservation; Army and Marine Ranges; Intrusion Detection Systems; Protective Design Center including Physical Security and Hardened Structures; Transportation Systems; Mechanical Systems and HVAC Controls; Fire Protection of Aviation Hangars; Utility Management and Control Systems; Expansive Soils; and Sanitary Engineering. Develops policy and guidance for the USACE Facilities Standardization Committee and Centers of Standardization for the DA Facilities Standardization Program.

6. Serves as the principal liaison with standards setting organizations; National Capital Planning Commission and Commission of Fine Arts for the review and approval of Army construction projects within the NCR; and the Battle Monuments Commission for national monuments on technical issues which impact the mission of DoD's design and construction agents.

7. Manages USACE participation in the COE Design and Environmental Awards Program, and the DoD and Presidential Design Awards Programs.

8. Identifies R&D projects needed to develop new architectural and engineering techniques and materials. Monitors assigned laboratory R&D efforts and provides technical guidance and coordination for technology transfers to the field.

COST ENGINEERING AND PROGRAMS FORMULATION BRANCH

Functions

1. Develops policies, technical guidance and procedures for cost engineering for MCA, BRAC, HTRW, and Support for Others (SFO) Programs for MP.

2. Prepares, reviews, and recommends project and annual budget estimates for the MCA, BRAC, HTRW, and SFO Programs for authorization and appropriation. Assists in project and program budget defense before OSD, OMB, and the Congress. Serves as the focal point for reprogramming actions. Provides staff assistance and support to the Office of the ASD (Energy and Engineering) on all cost engineering issues, including the annual survey and development of

DoD cost guidance, such as area cost factors and facilities unit prices.

3. Develops technical guidance, procedures, and compliance instructions with DoD and OMB policies to ensure that MILCON economic analysis performed at installations, USACE field offices, and MACOMs comply with HQDA, OSD, and Congressional goals. Analyses discrepancies and problems for resolution. Develops and reviews the application of policies, criteria, and technical standards and guidance for engineering economics, EA, and LCC for MP.
4. Develops technical guidance and direction for the QMR Program. Proponent for the USACE-wide standard management information systems (ACASS & CCASS) that support design and construction quality programs in DOD and other Federal agencies.
5. Develops policies, technical guidance and direction for the Computer-Aided Cost Engineering System; Computer-Aided Design and Drafting Program; CADD Library of Designs; Tri-Service CADD/GIS Technology Center; Virtual Design Team Program; Electronic Bid Set Program; and the ARMS Technical Center of Expertise.
6. Provides engineering management and analysis for the USACE-wide engineering and construction workload, cost of doing business, and project and program design costs. Develops input to accounting and reporting policies for management of MP missions. Provides engineering and construction review and input to CERAMMS.
7. Provides cost engineering, engineering management, consulting and technical interface, and support for USACE field offices, other Federal, state and local agencies, using services, and the private sector.

MEDICAL FACILITIES OFFICE

Functions

1. Develops USACE medical design policies, technical guidance, procedures, criteria, and standards. Provides USACE-wide Center of Expertise for the design and construction of medical and medical research facilities (MMRF) for the Army, and when designated, Air Force, other Federal agencies, and foreign governments.
2. Manages the A-E selection process; chairs A-E selection boards; and serves as the COR for all MMRF. Manages the development of concept designs; monitors final designs; and reviews contract documents for medical technical design features and for compliance with approved concept designs for MMRF, where USACE is the design agent.
3. Provides construction oversight for all MMRF; reviews proposed construction contract changes for compliance with established policies and criteria; and coordinates with the OTSG and DoD for final decision and implementation.
4. Provides oversight and management of the medical OMEE, MUCS and Engineered

Procurement of Medical Equipment Programs, and the Medical Facility Construction Management Guide.

VALUE ENGINEERING

Functions

1. Develops USACE VE policies, technical guidance and procedures for all USACE activities, and budget parameters for USACE-wide VE programs. Provides input for OMB Circular A-131, and annual reports on VE activities and accomplishments to OSD and OMB.
2. Provides policy guidance and oversight of OVEST in meeting VE initiatives and goals, and conducting VE studies on large, complex MP, CW, SFO, HTRW and other construction projects USACE-wide. Proponent for the PROSPECT VE Workshop.
3. Monitors and evaluates USACE field offices for compliance with P.L., E.O., OMB Circulars, and Federal Regulations involving VE for MP, CW, SFO, HTRW, and other construction programs. Represents USACE at meetings and hearings with HQDA, OSD, other Federal agencies, OMB, Congress, foreign governments, and the private sector on VE matters.